

**Standard Products List**

**Glass Type**



Part number		ELW0501AB	ELW0804AA	ELW0901AA	ELW1004AC	ELW1008AA (ROUND)	ELW1101AA	ELW1301AA
Image								
Diagonal	Inch	0.5	0.8	0.9	1.0	1.0	1.1	1.3
Color-type	-	Mono White	Mono White	Mono White	Mono White	Mono White	Mono White	Mono White
Resolution (W×H)	-	60 x 32	128 x 64	128 x 36	128 x 64	128 x 128	128 x 128	128 x 40
Glass Size	mm	15.3 x 10.2	25.45 x 18.30	25.28 x 9.9	15 x 28	31.08 x 33.98	25.64 x 27.85	36.74 x 14.00
Active Area	mm	11.25 x 5.99	18.53 x 9.26	21.734 x 6.095	10.856 x 21.736	φ24.296	20.2 x 20.2	31.84 x 8.65
Pixel Pitch	mm	0.188 x 0.188	0.145 x 0.145	0.17 x 0.17	0.17 x 0.17	0.190 x 0.190	0.158 x 0.158	0.249 x 0.217
Thickness (typical)	mm	1.085	2.4	0.94	1.189	1.339	1.525	1.03
Weight	g	0.6	1.6	0.6	1.1	2.2	2.4	1.4
Luminance @Lighting Rate 30%	cd/m <sup>2</sup>	250 (500)	350 (500)	500 (800)	180 (300)	170	100 (200)	350 (700)
Circular Polarizer	-	Has	Has	None	Has	Has	Has	None
Operating Lifetime @Lighting Rate/1dot =30%	hrs	15,000 (20,000)	10,000 (10,000)	20,000 (35,000)	30,000 (30,000)	24,000	30,000 (30,000)	30,000 (30,000)
I/F	-	SPI / I <sup>2</sup> C	SPI	SPI	SPI / I <sup>2</sup> C / Parallel	SPI / I <sup>2</sup> C	SPI / I <sup>2</sup> C / Parallel	SPI / I <sup>2</sup> C
Panel Drive Voltage	V	13.0 (13.0)	VHA17.0/VHC12.5 (VHA19.0/VHC14.5)	13.0 (13.0)	13.0 (13.0)	16.0	16.5 (16.5)	12.0 (14.0)
Logic Power Voltage	V	2.8	5.0	1.8	3.0	3.0	2.0	3.3
Power Consumption @Lighting Rate 30%	mW	18.0 (30.0)	82.0 (120.0)	28.5 (35.0)	47.0 (80.0)	190.0	89.0 (120.0)	33.5 (70.0)
FPC (pin No)	-	11	22	11	23	15	35	11
Accommodated connector	-	IRISO ELECTRONICS 9671S-11B-GF	IRISO ELECTRONICS SERIES 9692	IRISO ELECTRONICS 9671S-11B-GF	Panasonic Electric AYF332335	HIROSE FH35C-15S-0.3SHW	KYOCERA 04 6293 635 005 829+	IRISO ELECTRONICS 9671S-11B-GF
Operating Temperature	°C	-20~+75	-40~+85	-20~+75	-20~+75	-40~+75	-20~+75	-20~+75
Storage Temperature	°C	-40~+85	-40~+105	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85
Gray Scale	-	2	16	2	2	16	16	2
Storage Lifetime (Lighting area of pixel 50%)	years	5.5	12.5	4.1	3.0	5.0	7.3	9.5
Purposes	-	Consumer	Automotive	Consumer	Consumer	Consumer	Consumer	Consumer
Notes	-	( )Values are custom for new materials sample L/T 3month, set up fee required				Under development	( )Values are custom for new materials sample L/T 3month, set up fee required	

Part number		ELW1501AA	ELW1502AAG	ELW1904BA	ELW2106AA	ELW2701AA	ELW3601AA	ETW1002AA (CapTouch)
Image								
Diagonal	Inch	1.5	1.5	1.9	2.1	2.7	3.6	1.0
Color-type	-	Mono White	Mono White	Mono White	Mono White	Mono White	Mono White	Mono White
Resolution (W×H)	-	128 x 128	120 Segment	160 x 128	256 x 64	176 x 52	256 x 64	128 x 64
Glass Size	mm	31.55 x 33.77	35.0 x 39.8	48.8 x 34.5	60.60 x 17.50	75.80 x 31.44	94.70 x 30.80	28.00 x 15.00
Active Area	mm	26.09 x 26.09	26.20 x 26.63	39.34 x 28.90	50.66 x 12.39	65.794 x 19.676	87.528 x 21.288	21.736 x 10.856
Pixel Pitch	mm	0.204 x 0.204	-	0.246 x 0.246	0.198 x 0.194	0.374 x 0.379	0.342 x 0.333	0.170 x 0.170
Thickness (typical)	mm	1.30	2.4	1.2	1.3	2.01	1.54	1.23
Weight	g	3.5	6.0	4.3	2.7	10.3	8.8	1.1
Luminance @Lighting Rate 30%	cd/m <sup>2</sup>	200 (400)	500 (700)	500 (600)	250 (500)	120 (250)	140 (180)	350 (450)
Circular Polarizer	-	None	Has	None	Has	Has	Has	Has
Operating Lifetime @Lighting Rate/1dot =30%	hrs	15,000 (15,000)	10,000 (10,000)	30,000 (35,000)	20,000 (20,000)	20,000 (20,000)	60,000 (60,000)	20,000 (20,000)
I/F	-	SPI	SPI	Parallel, SPI, I2C	SPI	SPI	SPI	SPI
Panel Drive Voltage	V	17.0 (17.0)	VHA12.0/VHC12.0 (VHA12.0/VHC12.0)	15.5 (15.5)	16.5 (17.0)	16.0 (16.0)	17.0 (17.0)	15.0
Logic Power Voltage	V	2.8	5.0	3	3.0	3.3	2.8	3.0
Power Consumption @Lighting Rate 30%	mW	150 (210)	180 (270)	280 (360)	190 (430)	160 (250)	330 (380)	80 (110)
FPC (pin No)	-	19	24	31	14	18	21	23
Accommodated connector	-	HIROSE FH35C-19S-0.3SHW	IRISO ELECTRONICS SERIES 9692	Amp/Tyco 1-2013496-1 TE Connectivity	MOLEX 503480-1400	IRISO ELECTRONICS 9637 Series 18pin	HIROSE FH35C-21S-0.3SHW	HIROSE FH35C-23S-0.3SHW
Operating Temperature	°C	-20~+75	-40~+85	-40 ~ +75	-20~+80	-20~+75	-20~+75	-20~+80
Storage Temperature	°C	-40~+85	-40~+105	-40 ~ +85	-40~+85	-40~+85	-40~+85	-40~+85
Gray Scale	-	16	-	2	16	16	16	2
Storage Lifetime (Lighting area of pixel 50%)	years	6.6	12.5	5.0	10.0	7.3	7.0	3.0
Purposes	-	Consumer	Automotive	Consumer	Consumer	Consumer	Consumer	Consumer
Notes	-	( )Values are custom for new materials sample L/T 3month, set up fee required						

All specifications are subject to change without notice.

VDD : Logic power supply voltage、VDDIO : Interface power supply voltage

Storage lifetime is the expectation from estimated values and not guaranteed.

CapTouch keys can be added as an optional feature.

## Standard Products List

## Glass Type

Part number		ELF1101AA	ELF1102AA	ELF1308BF	ELF1311AA	ELF2001AA	ELF2101AA	
Image								
Diagonal	Inch	1.1	1.1	1.3	1.3	2.0	2.1	
Color-type	-	Full color	Full color	Full color	Full color	Full color	Full color	
Resolution (W×H)	-	96 x RGB x 96	160 x RGB x 40	128 x RGB x 128	256 x RGB x 64	256 x RGB x 64	176 x RGB x 48	
Glass Size	mm	25.81 x 27.07	36.2 x 11.3	28.40 x 29.60	36.78 x 17.5	52.7 x 22.29	60.50 x 19.50	
Active Area	mm	20.137 x 20.136	28.14 x 7.024	23.401 x 23.400	31.468 x 7.852	48.103 x 11.88	50.664 x 12.364	
Pixel Pitch	mm	0.21 x 0.21	0.176 x 0.176	0.183 x 0.183	0.123 x 0.123	0.188 x 0.186	0.288 x 0.258	
Thickness (typical)	mm	1.2	1.22	1.19	1.22	1.22	1.22	
Weight	g	2.3	TBD	2.9	TBD	2.9	3.0	
Luminance	cd/m <sup>2</sup>	120 (240)	200	120 (200)	300	350	120 (150)	
Circular Polarizer	-	None						
Operating Lifetime @Lighting Rate/1dot =30%	hrs	10,000 (10,000)	14,000	10,000 (10,000)	10,000	11,000	30,000 (30,000)	
I/F	-	Parallel	SPI	SPI	SPI	SPI	SPI / I <sup>2</sup> C	
Panel Drive Voltage	V	17.0 (16.0)	15.0 ※TBD	15.0 (17.0)	14.0 ※TBD	16.0	17.5 (17.5)	
Logic Power Voltage	V	2.7	3.0	1.8	3.0	3.0	3.0	
Power Consumption @Lighting Rate 30%	mW	85.0 (170.0)	100.0	130.0 (190.0)	140.0	320.0	250.0 (220.0)	
FPC (pin No)	-	33	18	18	23	23	23	
Accommodated connector	-	HIROSE ELECTRIC FH35-33S-0.3SHW	HIROSE ELECTRIC FH34SRJ-18S-0.5SH(50)	Dai-ichi Seiko 20542-018E-01(I-PEX)	HIROSE ELECTRIC FH35C-23S-0.3SHW	HIROSE ELECTRIC FH35C-23S-0.3SHW	HIROSE ELECTRIC FH35C-23S-0.3SHW	
Operating Temperature	°C	-20~+75	-20~+75	-20~+75	-20~+75	-20~+75	-20~+75	
Storage Temperature	°C	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	
Gray Scale	-	65k color	4k color	65k color	65k color	65k color	65k color	
Storage Lifetime Expectancy (Lighting area of pixel 50%)	years	5.4	5.0	3.6	5.0	5.0	5.0	
Purposes		Consumer	Consumer	Consumer	Consumer	Consumer	Consumer	
Notes	-	( )Values are custom for new materials sample L/T 3month	'21/8 ES Release	( )Values are custom for new materials sample L/T 3month	'21/9 ES Release		( )Values are custom for new materials sample L/T 3month	

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